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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

23373 7590 030662009 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON DC 20037

EXAMINER					
SNYDER, STUART					
ART UNIT	PAPER NUMBER				
1640					

DATE MAILED: 03/06/2009

 APPELCATION NO.
 FILING DATE
 FIRST NAMED RIVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10528.364
 06/08/2006
 Tuen-Yee Wong
 Q86490
 5030

 TILE OF INVENTION. VACCINES
 500
 500
 500

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 0608/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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WASHINGTON	N, DC 20037					(Depositor's name)	
			_			(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/528,364 TITLE OF INVENTION	06/08/2006 I: VACCINES		Tuen-Yee Wong		Q86490	5030	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DU	E DATE DUE	
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/08/2009	
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	1			
SNYDER,	STUART	I648	424-184100	•			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha B/122) attached. ication (or "Fee Address 22 or more recent) attach ND RESIDENCE DATA	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON 2	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or ty data will appear on the p T a substitute for filine an	3 registered patent vely, e firm (having as a nagent) and the names rneys or agents. If no printed.	nember a 2 of up to o name is 3	document has been filed for	
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	s SMALL ENTITY state	is. See 37 CFR I.27.			ENTITY status. See 37 C		
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regist	ered attorney or agent; or	the assignee or other party in	
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/528,364	06/08/2006	Tuen-Yee Wong	Q86490	5030		
23373	23373 7590 03/06/2009			EXAMINER		
SUGHRUE MION, PLLC			SNYDER, STUART			
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER			
			1648 DATE MAII ED: 03/06/200	9		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 18 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 18 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

### Application No. Applicant(s) 10/528 364 WONG ET AL. Notice of Allowability Examiner Art Unit STUART W SNYDER 1648 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 10/30/2008. The allowed claim(s) is/are 24,26,27,30-38 and 40-42. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) 🔯 All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \( \overline{\text{ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 3/18/2005 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. T Examiner's Statement of Reasons for Allowance of Biological Material Other .

Application/Control Number: 10/528,364 Page 2

Art Unit: 1648

#### DETAILED ACTION

#### Status of the claims

 Claims 1-42 are pending. Claims 1-23 are withdrawn from consideration as being directed to non-elected inventions. Acknowledgement is made of amendment of claims 24 and 33, cancellation of claims 25, 28 and 29. Claims 24, 26-27, 30-42 are examined herein.

## Specification

 Objection to the Specification because the title of the invention not being descriptive is withdrawn in view of Applicants' amendment to the Specification in the filing of 10/30/2008.

## Claim Objections

 Objection to claim 39 under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim is moot and withdrawn in view of cancellation of the claim (see Applicants' filing of 10/30/2008 and Examiner's Amendment below).

#### Claim Rejections - 35 USC § 112

Rejection of claims 40-42 under 35 U.S.C. 112, second paragraph, as being
indefinite for failing to particularly point out and distinctly claim the subject matter
which applicant regards as the invention is withdrawn in view of amendment of
claim 40.

#### Claim Rejections - 35 USC § 103

Application/Control Number: 10/528,364

Art Unit: 1648

 Rejection of claims 24, 26-27, 30-36 and 38 under 35 U.S.C. 103(a) as being unpatentable over Jamella, et al. is withdrawn in view of Applicants' amendment of claim 24 and Applicants' arguments filed 10/30/2008.

Page 3

- Rejection of claims 25 and 28 under 35 U.S.C. 103(a) as being unpatentable over Jamella, et al. is withdrawn in view of cancellation of the claims.
- Rejection of claim 29 under 35 U.S.C. 103(a) as being unpatentable over
   Jamella, et al. in view of Chang and Gupta is withdrawn in view of cancellation of the claims.
- Rejection of claim 37 under 35 U.S.C. 103(a) as being unpatentable over Jamella, et al. in view of Spireas, et al. is withdrawn in view of Applicants' amendment of claim 24 and Applicants' arguments filed 10/30/2008.
- Rejection of claims 40-42 under 35 U.S.C. 103(a) as being unpatentable over Jamella, et al. in view of Villegas, et al. Macklin, et al. and Layton, et al. is withdrawn in view of Applicants' amendment of claim 24 and Applicants' arguments filed 10/30/2008.

## Double Patenting

10. Rejection of claims 24-26, 30-31, 33-36 and 38 on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 3, 4, 6, and of U.S. Patent No. 6,974,594 is withdrawn is view of Applicants' amendment of claim 24 and Applicants' arguments filed 10/30/2008.

Application/Control Number: 10/528,364 Page 4

Art Unit: 1648

Rejection of claim 28 on the ground of nonstatutory obviousness-type double
patenting as being unpatentable over claims 1, 3, 4, 6, and of U.S. Patent No.
6.974.594 is most and withdrawn is view of cancellation of the claim.

#### **EXAMINER'S AMENDMENT**

12. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Susan J. Mack on 2/4/2009.

Claims 1-23 and 39 are cancelled.

- 24. A stabilized vaccine composition comprising immunogen coated particles of a pharmaceutically acceptable water-soluble material, wherein the composition has a moisture content of between about 0.1% w/w to about 10% w/w, further wherein the composition remains stable and efficacious on storage at 25°C for at least 30 days, and further wherein the immunogen comprises virus particles, bacterial cells or other microorganisms.
- 30. The stabilized vaccine composition according to claim 24, wherein the pharmaceutically acceptable water-soluble material comprises one or more members selected from the group consisting of a monosaccharide, disaccharide, polysaccharide, carbohydrate, water-soluble peptide,

Application/Control Number: 10/528,364

Art Unit: 1648

gelatin, mineral salt, water-soluble polymer, and water- soluble

pharmaceutically acceptable excipient.

#### Allowable Subject Matter

- 12. Claims 24, 26-27, 30-38 and 40-42 are allowed.
- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to STUART W. SNYDER whose telephone number is (571)272-9945. The examiner can normally be reached on 9:00 AM-5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce R. Campell can be reached on (571) 272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

571-273-8300.
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mary E Mosher/ Primary Examiner, Art Unit 1648 Stuart W Snyder Examiner Art Unit 1648

sws